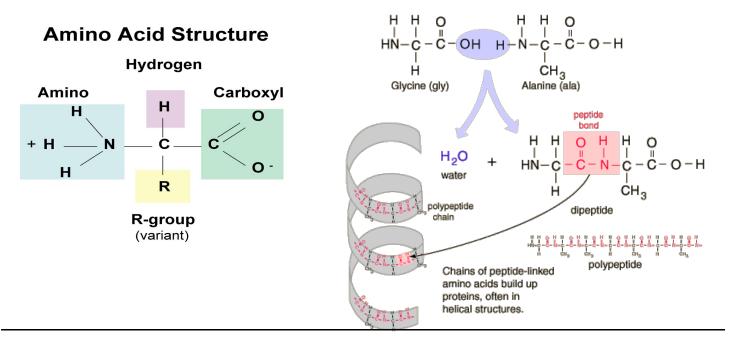
Protein Lab

Proteins are made of many different amino acids bonded together. Proteins differ by the number and order of amino acids in the protein.



Pre- Lab Questions

- 1. What atoms are present in the amino acids shown above? _____
- 2. How does this differ from carbohydrates? _____
- 3. Look at the diagram of peptide binding on the right.
 - a. What is the biproduct (what is made) of peptide bonding? _____
 - b. What is the name of this kind of reaction? _____

2 Proteins

Protein Test

- 1. The chemical indicator for proteins is the indicator Biuret.
- 2. Prepare a positive control with about 20 drops of albumin (a kind of protein) and an equal volume of the indicator Biuret.
- 3. Make a negative control using water and Biuret.
- 4. Test two different foods for proteins using a small amount of liquified food. Be sure to avoid sucking up food chunks.
- 5. Fill in the table below with your results

Test Tube Number	Do you expect this to contain protein?	Result	What does this indicate?
Test Tube 1:			
Positive Control			
Albumin + Biuret			
Test Tube 2:			
Negative Control			
Water + Biuret			
Test Tube 3:			
Food 1 + Biuret			
Test Tube 4:			
Food 2 + Biuret			

Anal	lvsis	Questions:
IIII	LyJIJ	Questions.

Be sure to answer in complete sentences

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1.	Draw	the	basic	stru	cture	10	an	amino	acid	bei	ow:

- 2. What is an R group?
- 3. How many different amino acids are there in living things? What makes them different from each other?
- 4. What is the purpose of protein in your body?
- 5. When might you want to have more protein in your diet?